Explore Fraction Skill and Concept Builders on the Web

Below are five reasonably useful applets and web sites that you might consider for use as you orchestrate instructional activities that will help students construct their understanding of fractions and build their procedural fluency with them.

NCTM Illuminations (<http://illuminations.nctm.org/> )  
Fraction Models   
(<http://illuminations.nctm.org/Activity.aspx?id=3519> )  
Explore different representations for fractions including improper fractions, mixed numbers, decimals, and percentages. Additionally, there are length, area, region, and set models.   
  
Equivalent Fractions   
(<http://illuminations.nctm.org/Activity.aspx?id=3510> )This applet allows you to create equivalent fractions by dividing and shading squares or circles, and match each fraction to its location on the number line.

NLVM (<http://nlvm.usu.edu/> )

[Fractions - Rectangle Multiplication](http://nlvm.usu.edu/en/nav/frames_asid_194_g_2_t_1.html) – Visualize and practice multiplying fractions using an area representation.

[Fractions - Adding](http://nlvm.usu.edu/en/nav/frames_asid_106_g_2_t_1.html) – Illustrates what it means to find a common denominator and combine.

[Fractions - Comparing](http://nlvm.usu.edu/en/nav/frames_asid_159_g_2_t_1.html) – Judge the size of fractions and plot them on a number line.

[Fractions - Equivalent](http://nlvm.usu.edu/en/nav/frames_asid_105_g_2_t_1.html) – Illustrates relationships between equivalent fractions.

Arcademics > Games > Fractions (<http://www.arcademics.com/> )

Go to the URL given above and click the “Games” in the upper left. Then use the drop down menus to select ”Factions.” You don’t need to select a grade level. Try any of the six games.